

Table of Contents

Preface

A Computational Study on Structural and Electronic Properties of 1-(4-Chlorophenyl)-2- [5-(4-Chlorophenyl)-1,2,3-Oxadiazol-2-Yl]Sulfanyl}Ethanone P.L. Toh, M. Meepriruk and R. Rasmidi	1
A Framework for Halal Knowledge Metadata Representations R. Atan and N.A. Azram	8
A High Efficiency Gyrostabilizer Antenna Platform for Real-Time UAV Synthetic Aperture Radar (SAR) Motion Error Compensation Z. Awang Ahmad, T.S. Lim, V.C. Koo, S. Daud, M. Asmi Romli and R.A.A. Raof	16
A Review on Visual Water Quality Monitoring System in Precision Aquaculture A.J. Embug, A.A.A. Ibrahim, M. Hamzah and M.F. Asli	23
A Robust Geometric Skin Colour Face Detection Method under Unconstrained Environment of Smartphone Database N. Amjed, F. Khalid, R.W.O.K. Rahmat and H.B. Madzin	31
Adaptive and Dynamic Hybrid Model for Software Project Management: A Review on its Clarity and Usage to Improve Project Success M.A. Jabar, N.M. Ali, Y.Y. Jusoh, S. Abdullah and S. Mohanarajah	38
Adaptive Neuro-Fuzzy Inference System for Predicting Compressive Strength of Fibres Self Compacting Concrete L.V. Prasad M. and P. Saha	46
An Analysis of Gamification on Dota 2's Business Model S. Thavamuni, H. Ismail and H. Iida	55
Application Layer Multicast Based Services on Hierarchical Peer to Peer Architecture M. Amad, A. Boudries and L. Badis	64
As(V) Adsorption Kinetics of Humic Acid-Coated Magnetite Particles N.K. Devaraj, S.R. Elghazali, L.S. Ganapathe, A.S.M. Mukter-Uz-Zaman and H.Y. Wong	72
Assessing Fun and Engagement in Mobile Applications for Children with Speech Delay C.A. Tommy, J.L. Minoi and C.S. Sian	79
Classifying the Level of Economic of Citizen Using Fuzzy Multiple Attribute Decision Making M. Muslihudin, R. Irviani, P. Khoir, A. Maseleno, K. Shankar and S.K. Lakshmanaprabhu	88
Comparative Study on Artificial Intelligence Techniques in Crime Forecasting A.R. Khairuddin, R. Alwee and H. Harun	94
Development of Kenaf Nonwoven as Automotive Noise Absorption S.N.H. Husain, N.A. Abdul Razak, A.H. Abdul Rashid, M.N.B. Yahya, N.Z. Zamri Tan, M.F. Shaari, S. Mahmood, N. Marsi and H.M. Mohamad Isa	101
Dynamic Data Sampling Approach by Using Price Distribution of Crude Palm Oil to Forecast High Magnitude Price Movement K.H. Sim, I. Goh and K.Y. Sim	106
Empirical Framework of Reverse Vending Machine (RVM) with Material Identification Capability to Improve Recycling R. Tomari, M.F. Zakaria, A.A. Kadir, W.N. Wan Zakaria and M.H. Abd Wahab	114
Field Programmable Gate Array (FPGA) Based Microwave Oven T. Bhuvaneswari, N.H. Abdul Aziz, J. Hossen and C. Venkateshaiah	120
'Folded-Line' Left Handed Metamaterial for Efficient Architecture Implementation S. Saibu and M.A.L. Razak	127
Formal Verification of Digital Circuits Using Simulator with Mathematical Foundation W. Khan, B. Azam, N. Shahid, A. Moeed Khan and A. Shaheen	134
Fuzzy AHP in a Knowledge-Based Framework for Early Flood Warning M.A. Teh Noranis, Z. Maslina and C.P. Noraini	143
Identifying the Types of Phobia: A Preliminary Investigation to Reduce Phobia through Gaming Approach A. Baharum, N.H. Mat Zain, A.M. Yasin, M.N.H.H. Jono, N.A. Mohamed Noh and N. Alias	150
Improved BVBC Algorithm to Discover Closed Itemsets in Long Biological Datasets F.A. Md Zaki and N.F. Zulkurnain	157

MHD Stagnation-Point Flow of a Nanofluid Past a Stretching Sheet with a Convective Boundary Condition and Radiation Effects N.A.A. Mohd Nasir, A.M. Ishak and I. Pop	168
Modeling and Optimization of Machining Parameters Using Regression and Cuckoo Search in Deep Hole Drilling Process A. Mohamad, A.M. Zain, N. Mohd Yusof, F. Najarian, R. Alwee and H.N. Abdull Hamed	177
Molecular Structures, Rotational Barriers, and Density Functional Theory Studies on 3,5-Diamino-6-(2,3-Dichlorophenyl)-1,2,4-Triazine P.L. Toh and S.M. Wang	185
Numerical Solution of Volterra Integro-Differential Equations Using Improved Runge-Kutta Methods F. Rabiei, F. Abd Hamid, N. Md Lazim, F. Ismail and Z. Abdul Majid	193
Performance Evaluation of MadBoost on Face Detection R. Pailus and R. Alfred	200
Pushing Constraints by Rule-Driven Pruning Techniques in Non-Uniform Minimum Support for Predicting Obstructive Sleep Apnea D.Y.Y. Sim, C.S. Teh and A.I. Ismail	210
Pushing Visualization Effects into Pushed Schema Enumerated Tree-Based Support Constraints D.Y.Y. Sim, C.S. Teh and A.I. Ismail	219
Review on the Role of Social Media for Dengue Prevention and Monitoring R. Kannan, L.K. Soon and M. Govindasamy	228
Revolutionizing Education through Artificial Intelligence: Fuzzy Multiple Attribute Decision Making Approach for Determining the Best Vocational High School Fauzi, R. Irviani, M. Muslihudin, F. Satria, M. Huda, N.V. Kamenez and A. Maseleno	234
Routing Approach in Wireless Sensor Network A. Boudries, M. Amad and R. Kassa	240
Spatial Signature Algorithm (SSA): A New Approach in Countermeasuring XML Signature Wrapping Attack M.M. Saudi, N.J. Mohd Zaizi, A.A. Bakar and K.J. Ahmed Swessi	249
The Effects of System Quality on Social Commerce N.M. Nistah, S. Sura and O. Lee	258
Using PERT to Optimise the Completion Time of Air-Conditioning and Mechanical Ventilation (ACMV) Project C.K. Pang, N.A. Mohd-Lair and Y.S. Chua	266
Variables Influencing Machine Learning-Based Cardiac Decision Support System: A Systematic Literature Review M.A. Rahman and A. Tumian	274
Weibull Probability Distribution of Wind Speed for Gaza Strip for 10 Years A.S.A. Badawi, N.F. Hasbullah, S.H. Yusoff, S. Khan, A. Hashim, A. Zyoud and M. Elamassie	284